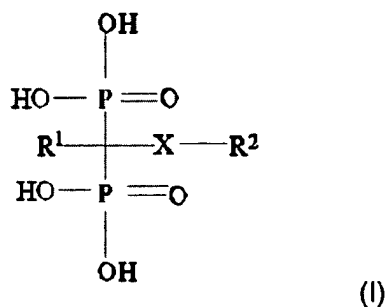


WHAT IS CLAIMED IS:

1. - 13. (canceled)

14. (currently amended) A bisphosphonic acid of the general formula (I)

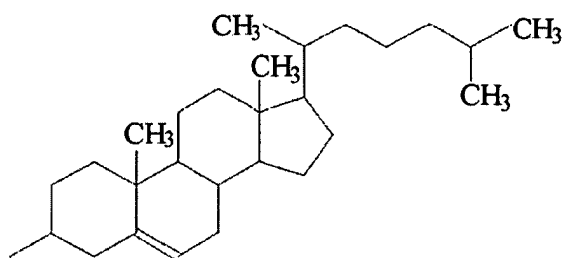


wherein R^1 is H, OH, $\text{C}_1\text{-C}_6$ alkyl, $\text{C}_1\text{-C}_6$ alkoxy, $\text{C}_1\text{-C}_6$ hydroxyalkyl, $\text{C}_1\text{-C}_6$ aminoalkyl, $\text{C}_1\text{-C}_6$ halogen alkyl,

X is a direct bond, alkylene group with 1 to 20 carbon atoms, $(\text{CH}_2)_m\text{-(OCR}^3\text{HCH}_2)_n\text{-(O)}_o\text{-(CH}_3)_m\text{-(OCR}^3\text{HCH}_2)_n\text{-(O)}_o\text{-}$, wherein R^3 is H or CH_3 and m is 0 or a number from 1 to 6, n is a number from 1 to 10, ~~preferably 1 to 6~~, and o is 0 or 1, $\text{-(CR}^4\text{HCH}_2\text{O)}_p\text{-}$, wherein R^4 is H or CH_3 , p is a number from 1 to 10, ~~preferably 1 to 6~~,

$(\text{CH}_2)_q\text{-(OCR}^5\text{HCH}_2)_r\text{-(O)}_s\text{-(CH}_3)_t\text{-(CH}_3)_q\text{-(OCR}^5\text{HCH}_2)_r\text{-(O)}_s\text{-(CH}_3)_t\text{-}$, wherein R^5 is H or CH_3 and q is 0 or a number from 1 to 6, r is a number from 1 to 10, ~~preferably 1 to 6~~, and s is 0 or 1, and t is a number from 1 to 6,

R^2 is a group of the formula (II)

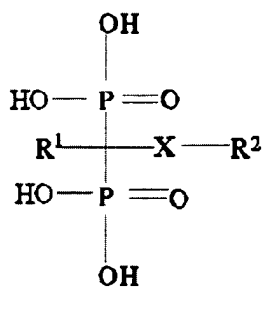


(II)

as well as their physiologically compatible derivatives, in particular salts and trimethyl silyl derivatives.

15. (previously presented) The bisphosphonic acid according to claim 14, wherein R¹ is OH.
16. (previously presented) The bisphosphonic acid according to claim 14 as a chelating agent or transport agent for divalent and trivalent metal ions in technical and industrial applications, as a corrosion protection agent in technical and industrial applications, as a pharmaceutical agent, as an additive for active agent transport or as a diagnostic agent.
17. (previously presented) The bisphosphonic acid according to claim 16, wherein the compound of the general formula (I) is bonded to an active agent or a diagnostic agent.
18. (previously presented) The bisphosphonic acid according to claim 17, wherein the active agent or the diagnostic agent is selected from therapeutic cancer agents, virustatic agents, antibiotics, antimycotic agents, anti-inflammatory agents, substances that ~~stimulates~~ stimulate bone tissue or suppress bone tissue.
19. (canceled)
20. (currently amended) A method for preparing the compound of the

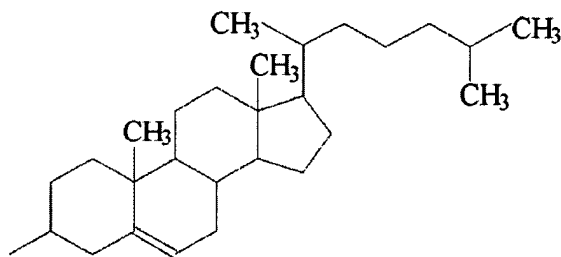
formula I,



wherein R^1 is H, OH, $\text{C}_1\text{-C}_6$ alkyl, $\text{C}_1\text{-C}_6$ alkoxy, $\text{C}_1\text{-C}_6$ hydroxyalkyl, $\text{C}_1\text{-C}_6$ aminoalkyl, $\text{C}_1\text{-C}_6$ halogen alkyl,

X is a direct bond, alkylene group with 1 to 20 carbon atoms, $(\text{CH}_2)_m\text{-(OCR}^3\text{HCH}_2)_n\text{-(O)}_o$, wherein R^3 is H or CH_3 and m is 0 or a number from 1 to 6, n is a number from 1 to 10, and o is 0 or 1, $\text{-(CR}^4\text{HCH}_2\text{O)}_p$, wherein R^4 is H or CH_3 , p is a number from 1 to 10, $(\text{CH}_2)_q\text{-(OCR}^5\text{HCH}_2)_r\text{-(O)}_s\text{-(CH}_3)_t$, wherein R^5 is H or CH_3 and q is 0 or a number from 1 to 6, r is a number from 1 to 10, and s is 0 or 1, and t is a number from 1 to 6,

R^2 is a group of the formula (II)

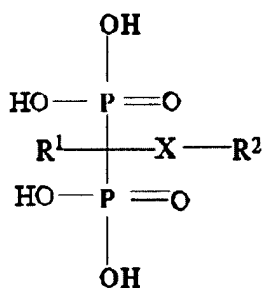


(II)

comprising the steps of reacting a compound of the formula II, $\text{R}^2\text{-X-COOH}$ or a reactive derivative an acid chloride thereof[[,]] in a way known in the art with the bisphosphonic acid or tris(trimethylsilyl) phosphite and isolating the obtained product or

converting the obtained product by hydrolysis into the free phosphonic acid.

21. (currently amended) A liposomal composition comprising a compound of the general formula I



(I)

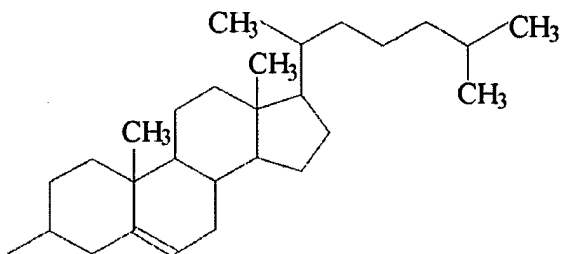
wherein R^1 is H, OH, C₁-C₆ alkyl, C₁-C₆ alkoxy, C₁-C₆ hydroxyalkyl, C₁-C₆ aminoalkyl, C₁-C₆ halogen alkyl,

X is a direct bond, alkylene group with 1 to 20 carbon atoms,

$(\text{CH}_2)_m - (\text{OCR}^3\text{HCH}_2)_n - (\text{O})_o$, wherein R^3 is H or CH₃ and m is 0 or a number from 1 to 6, n is a number from 1 to 10, and o is 0 or 1,

$-(\text{CR}^4\text{HCH}_2\text{O})_p$, wherein R^4 is H or CH₃, p is a number from 1 to 10, $(\text{CH}_2)_q - (\text{OCR}^5\text{HCH}_2)_r - (\text{O})_s - (\text{CH}_3)_t$, wherein R^5 is H or CH₃ and q is 0 or a number from 1 to 6, r is a number from 1 to 10, and s is 0 or 1, and t is a number from 1 to 6,

R^2 is a group of the formula (II)



(II)

and at least one phospholipid and a uronic acid derivative selected from the group

consisting of palmityl-D-glucuronide; galactosyl-D-glucuronide; palmityl-D-glucuronide; and galactosyl-D-glucuronide.

22. (currently amended) The liposomal composition according to claim 21, wherein ~~as a the~~ uronic acid derivative ~~palmityl-D-glucuronide; galactosyl-D-glucuronide; or palmityl-D-glucuronide and galactosyl-D-glucuronide~~ are is contained in concentrations of 0.1 mol % to 25 mol %.

23. (currently amended) The liposomal composition according to claim 21, wherein the phospholipids are selected from phosphatidyl choline, phosphatidyl glycerol, phosphatidyl ethanolamine, phosphatidyl inositol, phosphatidyl acid, and wherein the composition further comprises lipids selected from sphingomyelin, ceramide ~~in their natural, semi-synthetic or synthetic forms~~ as well as stearyl amine and cholesterol.

24. (previously presented) The liposomal composition according to claim 21 in the form of an aqueous dispersion or as a lyophilisate.

25. (canceled)

26. (currently amended) A method for producing a liposomal composition according to claim 21, comprising the step of mixing by ultrasound, high-pressure extrusion, or high-pressure homogenization a raw mixture comprising the compound of the general formula I and at least one phospholipid and a uronic acid derivative selected from the group consisting of palmityl-D-glucuronide; galactosyl-D-glucuronide; palmityl-D-glucuronide; and galactosyl-D-glucuronide.

27. (currently amended) The method according to claim 26, wherein the raw mixture contains palmityl-D-glucuronide[[,]]; phospholipids[[,]]; bisphosphonic acid(s) ~~or a derivative thereof~~ of the general formula (I) or a salt thereof; and any further

contains an individual active substance agent or a combination of active agents
~~substances are contained in the raw mixture.~~

28. (new) The liposomal composition according to claim 21 comprising palmityl-D-glucuronide; phospholipids; bisphosphonic acid(s) of the general formula (I) or a salt thereof; and any individual active agent or combination of active agents, wherein the active agent is selected from the group consisting of therapeutic cancer agents, virustatic agents, antibiotics, antimycotic agents, anti-inflammatory agents, substances that stimulate bone tissue or suppress bone tissue.